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466 7590 06/02/2009 YOUNG & THOMPSON 209 Madison Street			EXAMINER	
			SQUIRES, BRETT S	
Suite 500 ALEXANDRI	A. VA 22314		ART UNIT	PAPER NUMBER
	,		2431	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Application No. Applicant(s) 10/539,566 BANGUI, FRANCOIS Office Action Summary Art Unit Examiner BRETT SQUIRES 2431 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 16 March 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 22-41 and 43-46 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 22-41 and 43-46 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 16 March 2009 is/are: a) ☐ accepted or b) ☑ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received.

PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date \_\_\_\_\_\_.

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Application/Control Number: 10/539,566 Page 2

Art Unit: 2431

#### Drawings

- 1. The drawings filed on March 16, 2009 will not be entered because the drawings contain new matter. The new matter contained in the drawings filed on March 16, 2009 is as follows: the flow of information between the software application to be verified and the executable certificate has been reversed (See fig. 1 ref. nos. 5, 9 and fig. 2 ref. nos. 14, 16), a bidirectional information flow between the executable certificate and the signature has been added (See figs. 1 and 2 ref. no. 6), an information flow between the executable certificate and the software application to be verified has been added (See fig. 1 and 2 ref. no. 10). A "new matter" amendment of the drawings is ordinarily not entered; neither is an additional or substitute sheet containing "new matter" even though provisionally entered by the TC technical support staff. See MPEP 608.04 and 37 CFR 1.121 (f)
- 2. If the drawings were entered, they would be objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters "4" and "7" have both been used to designate an executable certificate in figure 1 and reference characters "15" and "22" have both been used to designate an executable certificate in figure 2. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by

Art Unit: 2431

the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

3. If the drawings were entered, they would objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "12" has been used to designate both the interactive link and the secure circuit in figure 2. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abevance.

### Specification

4. The amendment filed March 16, 2009 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: the replacement of a card with the memory context of the authentic software application with a map with the memory context of the authentic software application. See page 4 lines 23-26 of the

Art Unit: 2431

specification filed March 16, 2009, claims 26, and 30. Applicant is required to cancel the new matter in the reply to this Office Action.

#### 35 USC § 112, sixth paragraph

5. Claims 34-36, 39, 41-42, and 44 satisfy the three-pronged analysis necessary to invoke 35 U.S.C. § 112, sixth paragraph and accordingly these claims are interpreted as means-plus-function claims. The three-pronged analysis necessary to invoke 35 U.S.C. § 112, sixth paragraph is recited below:

A claim limitation will be presumed to invoke 35 U.S.C. 112, sixth paragraph, if it meets the following 3-prong analysis:

- (A)the claim limitations must use the phrase "means for" or "step for:"
- (B)the "means for" or "step for" must be modified by functional language; and
- (C)the phrase "means for" or "step for" must not be modified by sufficient structure, material, or acts for achieving the specified function.

#### Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 30, 34-42 and 44 are rejected under 35 U.S.C. 112, second paragraph,

as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Art Unit: 2431

Claim 30 recites the limitation "the memory context map" in page 7 lines 4-5 of the amendment submitted on March 16, 2009. There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.

Claim 34 recites the means-plus-function claim elements: "means for moving said executable certificate to the host terminal," "comparison means for comparing the result obtained through the execution of the control instruction with the result expected from an authentic application," and "means which are capable, in the event of a positive comparison, of continuing with the execution of the software application to be verified." The specification fails to disclose adequate corresponding structure for the above claim elements, thereby rendering claims 34-42 and 44 indefinite. Appropriate correction is required.

The specification does not recite any corresponding structure for the claimed "means for moving said executable certificate to the host terminal," and "means which are capable, in the event of a positive comparison, of continuing with the execution of the software application to be verified." The specification recites "comparison means for comparing the result of the execution of the executable certificate on the behavior of the software application to be verified with the result expected from the behavior of an authentic application," on page 6 lines 12-15, this recitation does not provide adequate corresponding structure for the claimed "comparison means for comparing the result obtained through the execution of the control instruction with the result expected from an authentic application."

Art Unit: 2431

35 U.S.C. 112, sixth paragraph states that a claim limitation expressed in meansplus-function language "shall be construed to cover the corresponding structure...described in the specification and equivalents thereof." "If one employs means
plus function language in a claim, one must set forth in the specification an adequate
disclosure showing what is meant by that language. If an applicant fails to set forth an
adequate disclosure, the applicant has in effect failed to particularly point out and
distinctly claim the invention as required by the second paragraph of section 112." In re

Donaldson Co., 16 F.3d 1189, 1195, 29 USPQ2d 1845, 1850 (Fed. Cir. 1994) (in banc).

Claim 35 recites the means-plus-function claim element "a means for communication with the secure circuit." The specification does not recite any corresponding structure for the above means-plus-function claim element, and thereby renders the claim element indefinite. Appropriate correction is required.

Claim 36 recites the means-plus-function claim element "means which is capable of validating or invalidating the authenticity of the software application." The specification does not recite any corresponding structure for the above means-plus-function claim element, and thereby renders the claim element indefinite. Appropriate correction is required.

Claim 44 recites the means-plus-function claim element "means which are capable of inserting the executable certificate into a first stream of data." The specification does not recite any corresponding structure for the above means-plus-function claim element, and thereby renders the claim element indefinite. Appropriate correction is required.

Art Unit: 2431

#### Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filled in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filled in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claims 22-23, 25-41, and 43-46 are rejected under 35 U.S.C. 102(e) as being anticipated by McCarroll (US 2003/0196102).

#### Regarding Claim 22:

McCarroll discloses a method of verifying the integrity of a software application ("Software code for a game" See paragraph 26) which is executable in a host terminal ("Sony Playstation, or any other type of Computer system" See fig. 1 ref. no. 100 and paragraph 20) that using the memory context of the authentic software application ("Processing Circuitry" and "RAM" See fig. 1 ref. nos. 104 and 112 and The examiner respectfully points out that the cryptographic unit inherently contains a memory. See paragraph 23) during the course of execution determines at least one series of control instructions forming an executable certificate ("At least a portion of the software code for the game is digitally signed with a key," See paragraph 26) for the software application, which can be executed by the host terminal during the execution of the software application to be verified ("Boot process of the disc containing software code for a game" See paragraphs 30-32), on the host terminal executing the software application

Art Unit: 2431

to be verified ("Boot process of the disc containing software code for a game" See paragraphs 30-32), receiving the executable certificate ("The portion of software code that is read is preferably one of the portions of code that has been digitally signed," See paragraph 28), executing the series of control instruction for the executable certificate using the memory context of the software application to be ("If the portions of software code is valid, then operation of the system 100 continues as normal as indicated in step 214." See paragraph 29), positively comparing the result thus obtained through the execution of the control instructions in the memory context of the host terminal ("Processing Circuitry" and "RAM" See fig. 1 ref. nos. 104 and 112 and The examiner respectfully points out that the cryptographic unit inherently contains a memory. See paragraph 23) with the result expected from an authentic software application ("The first message hash is compared to a second message digest from the decrypted signature file." See paragraph 30), and in the event of a positive comparison continuing with the execution of the software application ("If the two digests match, it can be verified that the portion of code such as the Table of Contents, has not been modified since being digitally signed by the manufacturer, and so the boot process is allowed to continue" See paragraph 30)

Regarding Claim 23:

McCarroll discloses the host terminal has a processor ("CPU" See fig. 1 ref. no. 110) and the series of control instructions forming the certificate is coded in a language which can be interpreted by the processor of the host terminal (The processing circuitry reads the digitally signed portion of software code." See paragraph 28).

Art Unit: 2431

Regarding Claim 25:

McCarroll discloses the executable certificate includes a portion of the processing necessary for the satisfactory operation of the authentic program ("The digitally signed portion of software code can be the table of contents, the application itself, executable files, boot bios, and any other sensitive data." See paragraph 26). Regarding Claim 26:

McCarroll discloses a card with the memory context of the authentic software application during the course of execution ("Small card-like media using Sony MagicGate or Sony Memory Stick technology." See fig. 1 ref. no. 108 and paragraph 21), and to determine from the values of this memory card the series of control instructions intended to form the executable certificate ("A digitally signed executable file is loaded from the small card-like media by the processing circuitry and the cryptography unit determines if the file is valid." See paragraph 32)

Regarding Claim 27:

McCarroll discloses the executable certificate for the host terminal emanates from an electronic processing circuit ("Remote server" See fig. 3 ref. no. 134) which is physically separated from the host terminal ("The computer system downloads one or more portions of software code that have been digitally signed from the remote server." See paragraph 35).

Regarding Claim 28:

McCarroll discloses the recovery of the execution values of the memory context is effected by reading the values at the addresses of the various portions of the memory

Art Unit: 2431

of the host terminal, these portions containing the executable instructions and the data intrinsic to the application to be verified ("The processing circuitry reads a portion of software code from the storage device, the software that is read is can be a portion of software code that has been digitally signed or a portion of software code that has not been digitally signed." See paragraphs 26-28).

Regarding Claim 29:

McCarroll discloses the result obtained by the execution of the series of control instructions produces a signature for the application to be verified ("A first message digest" See paragraph 30), this signature being calculated by the series of control instructions uses the vales of the memory context of the software application to be verified during the course of execution of the application ("The cryptography unit hashes a portion of software code, such as the table of contents, the applications itself, the executable files, the boot bios, or any other sensitive data, into a first message digest." See paragraph 30)

Regarding Claim 30:

McCarroll discloses the software application has instruction which permit the series of control instruction to be loaded and executed in a memory context card ("PC card or PCMCIA card" See fig. 5a ref. no. 120) by substituting at least one address for executing an instruction of the software application by at least one instruction address of the series of instructions which form the certificate ("The PC card includes a cryptography unit for ensuring the integrity of the copy protection and the integrity of the machine code of system software." See fig. 5a ref. no. 122 and paragraphs 24 and 45).

Art Unit: 2431

# Regarding Claim 31:

McCarroll discloses the series of control instructions is selected in such a manner that the state of the memory context of one software application after the execution of the series of control instruction is identical or without any modification to the state of the memory context of the software application prior to the execution of the series of control instructions ("The creation of message digests using; the table of contents, the applications itself, the executable files, the boot bios, or any other sensitive data of software code for a game does not alter the software code for a game." See paragraphs 30-32).

#### Regarding Claim 32:

McCarroll discloses the series of instructions forming the certificate is transported into a stream of data necessary for the execution of the software application to be verified ("One or more portions of software code that have been digitally signed can be downloaded by the computer system." See paragraph 35).

#### Regarding Claim 33:

McCarroll discloses the software application to be verified is wholly or partially encoded ("The contents of the computer readable medium could also be encrypted." See fig. 1 ref. no. 108 and paragraph 27), the correct deciphering software application being achieved in the event of integrity of the software application to be verified ("The encrypted contents of the computer readable medium are digitally signed and when the encrypted contents are determined to be valid the encrypted content are decrypted, however when the encrypted contents are determined to be invalid the operation of the

Art Unit: 2431

system is prevented and thus the contents are not decrypted." See fig. 2a-2b and paragraphs 26-30)

Regarding Claims 34 and 40:

McCarroll discloses a system (See fig. 1 ref. no. 100) having a processing means ("Processing Circuit" See fig. 1 ref. no. 104) capable of determining at least one series of control instruction for the software application which can be executed by the system during the execution of the software applications, the series of control instructions forms an executable certificate ("A digitally signed portion of software code for a game" See paragraph 26) of the software application, means for moving the executable certificate to the system ("Storage Device having removable computer readable media" and "Modem" See fig. 1 ref. nos. 102, 132 and paragraph 21) and executing means ("Cryptography Unit" See fig. 1 ref. no. 122 and paragraphs 29-30) for executing the series of instructions forming the certificate on the system during the execution of the software application, comparison means ("The cryptography unit compares the first message digest with the second message digest." See paragraphs 29-30) for positively comparing the result obtained through the execution of the control instruction with the result expected from an authentic application, and means which are capable, in the event of a positive comparison of continuing with the execution of the software application to be verified ("The cryptography unit indicated whether or not a portion of code is valid." See paragraph 30).

Regarding Claim 35:

Art Unit: 2431

McCarroll discloses a smart card ("PC card or PCMCIA card" See fig. 5a ref. no. 120) that is capable of containing the series of control instruction forming the certificate, the system is provided with a reader ("Slot interface" See fig. 5a ref. no. 160) for reading the smart card, and means for executing the software application ("Cryptography Unit" See fig. 1 ref. no. 122 and paragraphs 29-30) are provided in the smart card the series of instruction forming the certificate during the execution of the software application to be verified ("The digitally signed portion of software code can be the table of contents, the application itself, executable files, boot bios, and any other sensitive data." See paragraph 26).

#### Regarding Claim 36:

McCarroll discloses the system is capable of returning to the smart card a signature ("A second message digest is contained in the signature filed with digitally signed portion of software code and the second message digest is sent from the system to the PC card." See paragraphs 28-30) produced by the series of control instructions and the smart card has a software verifying means ("The cryptography unit indicated whether or not a portion of code is valid." See paragraph 30) which is capable of validating or invalidating the authenticity of the software application to be verified in dependence on the result of the comparison between the signature produced by the series of control instruction and a value for the signature which is known and previously stored in the smart card ("The cryptography unit compares the first message digest with the second message digest." See paragraphs 29-30).

Regarding Claims 37 and 39:

Art Unit: 2431

McCarroll discloses the smart card is capable of preventing the operation of the software application of the system ("The cryptography unit compares the created message digest with the decrypted digest and if the digests do not match the operation of the system is prevented" See paragraph 32).

Regarding Claim 38:

McCarroll discloses in the event of a non-transmission of the signature in conformity with predetermined conditions ("Swap trick type of copy protection defeat," See paragraph 32), the smart card is capable of modifying the operation of the software application to be verified ("The cryptography unit compares the created message digest with the decrypted digest and if the digests do not match the operation of the system is prevented" See paragraph 32).

Regarding Claim 41:

McCarroll discloses the processing means are capable of determining a plurality of executable certificates which differ from one another according to a selected rate or condition ("The processing circuit reads digitally signed portion of software code such as the table of contents, the application itself, executable files, boot bios, and any other sensitive data." See paragraph 26).

Regarding Claim 43:

McCarroll discloses inserting the executable certificate into a first steam of data 
("Table of Contents for software code" See paragraphs 28-29) and of processing 
through encoding a second stream of data ("Encrypted signature file for the table of 
contents" See paragraph 29) necessary for satisfactory operation of the software

Art Unit: 2431

application to be verified prior to the second stream not being obtained for processing through the software application to be verified ("Prior to the computer readable media being inserted into the system at least a portion of the software code for the game is digitally signed with a key." See paragraph 26).

# Regarding Claim 44:

McCarroll discloses means which are capable of inserting the executable certificate ("Manufacture's equipment for mastering DVDs" See paragraph 26) into a first stream of data ("Table of Contents for software code" See paragraphs 28-29) and means for processing through encoding ("Manufacture's equipment for mastering DVDs" See paragraph 26) a second stream of the data ("Encrypted signature file for the table of contents" See paragraph 29) necessary for the satisfactory operation of the software application to be verified prior to the second stream not being obtained for processing through the software application to be verified.

#### Regarding Claim 45:

McCarroll discloses the series of control instruction is selected in such a manner that the state of the memory context of the software application after the execution of the series of control instruction is without any modification to the state of the memory context of the software prior to the execution of the series of control instructions ("In other words, if the two digest match, it can be verified that the portion of code, such as the Table of Contents, has not been modified since being digitally signed by the manufacturer, and so the boot process is allowed to continue. The above process may be repeated for one or more additional portions of software code." See paragraph 30-

Art Unit: 2431

31 The examiner respectfully points out that the memory of the cryptographic unit is cleared after each comparison of hash values, so that a previous hash value is not used for a comparison of an addition portion of software code.).

#### Regarding Claim 46:

McCarroll discloses the processing means comprises means for determining a plurality of executable certificate which differ from one another according to a selected condition ("By way of example, portions of code that could be signed are: the disc's Table of Contents, the application itself, executable file, the boot bios, and any other sensitive data that should not be modified by a third party." See paragraph 26 The examiner respectfully points out that the different portions of code that could be signed will have different hash values. See paragraph 30).

#### Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claim 24 is rejected under 35 U.S.C. 103(a) as being obvious over McCarroll (US 2003/0196102) in view of Yach et al. (US 2004/0025022).

McCarroll discloses the above stated method of verifying the integrity of a software application ("Software code for a game" See paragraph 26) which is

Art Unit: 2431

executable in a host terminal ("Computer system" See fig. 1 ref. no. 100 and paragraph 20).

McCarroll does not disclose the host terminal is provided with a virtual machine which is capable of emulating a processor and that the series of control instruction forming the certificate is coded in a language which can be interpreted by the virtual machine.

Yach discloses a method for code signing that has a virtual machine for verifying the authenticity of the digital signature of a software application (See paragraphs 8-9).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of verifying the integrity of a software application disclosed by McCarroll to include a virtual machine for verifying the authenticity of the digital signature of a software application in order to protect the user from unreliability of software downloaded from the internet (See Yach paragraph 5).

# Response to Arguments Regarding Rejections under 35 U.S.C 112, second paragraph

11. In response to the applicant's argument that "means for moving" are disclosed by the statement that "the host terminal belongs to the group formed by data processing apparatuses, digital television decoders, equipment for visualizing multimedia contents, micro-computer, smart cards, personal organizers, game consoles, mobile telephones or the like," the examiner respectfully points out that "for purposes of 35 U.S.C. § 112, sixth paragraph, specification does not disclose sufficient corresponding structure by

Art Unit: 2431

simply reciting that claimed function can be performed by known methods or using known equipment." See *Biomedino LLC v. Waters Technologies Corp. 83 USPQ2d* 1118 (Fed. Cir. 2007).

In response to the applicant's argument that "means for comparing" cannot be disclosed more properly than by their result which is to let the application run without error if the application is authentic, the examiner respectfully points out that functional descriptive material, such as the software application described in paragraph 14, does not define any structure corresponding to the means for comparing. The examiner further points out that the "proper inquiry is whether person of skill in art would understand specification itself to disclose structure, not simply whether that person would be capable of implementing structure." See *Biomedino LLC v. Waters*Technologies Corp. 83 USPQ2d 1118 (Fed. Cir. 2007).

In response to the applicant's argument that "means for communication" are disclosed in paragraph 44 and arrow 12 of figure 2, the examiner respectfully points out that describing a communication link as an interactive link and showing the flow of information with directional arrows does not provide any structure for the means for communication that establish and communicate over the communication link.

In response to the applicant's argument that "verifying means" are clearly identified as reference 24 in paragraph, the examiner respectfully points out that functional descriptive material, such as the verification application that maintains a table of correspondence between the executable control instructions 15 and the expected results described in paragraph 47, does not define any structure. The examiner further

Art Unit: 2431

points out that the "proper inquiry is whether person of skill in art would understand specification itself to disclose structure, not simply whether that person would be capable of implementing structure." See *Biomedino LLC v. Waters Technologies Corp.* 83 USPQ2d 1118 (Fed. Cir. 2007).

In response to the applicant's argument that corresponding structure for "means which are capable of inserting," is found in paragraphs 39 and 40, the examiner respectfully points out that paragraph 39 and 40 disclose "The source of the multimedia stream may be a transmission point of a broadcasting network, the permanent memory of the host terminal, or even a memory unit extractable from the host terminal."

Paragraph 39 and 40 do not provide any structure that inserts the executable certificate into the multimedia stream.

# Response to Arguments Regarding Rejections under 35 U.S.C 102 and 35 U.S.C. 103

12. In response to the applicant's argument that the signature disclosed by McCarroll is not a certificate according to the invention since it cannot be executed, the examiner respectfully points out that the portion of the software code for the game that is digitally signed is being read on the executable certificate and not the accompanying signature file containing a digest that corresponds to an unmodified portion of software code for the game that is digitally signed.

In response to the applicant's argument that McCarroll performs a mathematical comparison and not a positive comparison as defined in the specification, the examiner respectfully points out that a positive comparison is defined as "any action, operation or

Art Unit: 2431

modification on the data used by the software application to be verified or any action, operation or modification on the running of the execution of the software application to be verified produces a behavior of the software application to be verified identical to that which is expected by the running of the execution of the authentic application." See applicant's specification page 2 lines 18-23. The examiner now points out that hashing a portion of software code into a first message digest is any action, operation or modification, the first message digest is a behavior of the portion of software code, and a second message digest from the signature file is that which is expected by running the execution of the authentic application. See McCarroll paragraph 30. Accordingly, the digest comparison performed by McCarroll fits within the definition of positive comparison defined in the applicant's specification.

In response to the applicant's argument that McCarroll contains a tamperproof circuit for cryptographic operation whereas the certificate of the invention is executed on the host terminal itself, the examiner respectfully points out that the tamperproof circuit for cryptographic operations is contained in the host terminal. See McCarroll fig.1 ref. nos. 100 and 120. The examiner further points out that the claim language recites the transitional phrase "comprising," and therefore is inclusive or open-ended and does not exclude additional, unrecited elements or method steps. See MPEP 2111.03

In response to the applicant's argument that a signature is decrypted before the application is executed, the examiner respectfully disagrees with the applicant's position. The examiner respectfully points out that the execution of the software code for a game begins with the boot process and reading the software code from the game

Art Unit: 2431

disc. The decryption of a signature occurs during this boot process and therefore the decryption of a signature is a step contained with the execution of the software code for game.

#### Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRETT SQUIRES whose telephone number is (571) 272-8021. The examiner can normally be reached on 9:30am - 6:00pm Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on (571) 272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/539,566 Page 22

Art Unit: 2431

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/BS/

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